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1. CBD152-002: Smart Split Neck Seals for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

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2. CBD152-003: Development of Mycotoxin Medical Countermeasures

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

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3. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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4. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

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5. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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6. DMEA152-001: Rapid Non-destructive Detection of Advanced Counterfeit Electronic Material

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Counterfeit and subversively modified electronic components represent a substantial threat to Department of Defense (DoD) systems. Testimony to the Senate Armed Services Committee (SASC) concluded that “the scope and impact of counterfeits is not known … counterfeit electronic parts can compromise performance and reliability, risk national security, and endanger the safety of military personne ...

SBIR Department of Defense

7. DMEA152-002: Analysis of Integrated Circuits Using Limited X-rays

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The DARPA TRUST program established the potential usefulness of using an X-Ray microscope to analyze ICs at a synchrotron. We would like to further that development using a lab based X-Ray source. When utilizing a lab X-ray source, acquisition times for X-ray images increase significantly compared to using a synchrotron X-ray source. This is due to the decreased number of X-ray photons (i.e., X-ra ...

SBIR Department of Defense

8. A152-091: Innovative Motion Measurement Package (M2P) for Guided and Un-Guided Munitions

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Performance of future munitions are dependent upon the accurate estimation of the airframe’s angular motion, acceleration about each axis, velocity and roll position relative to up. The M2P will reside within the munition airframe and measure actual projectile/airframe properties, which can be used by the munitions guidance package and/or fuzing system. The M2P technology can utilize conventiona ...

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9. A152-092: Enhanced Analysis for Pulsed Voltammetry Evaluation Tool / System for Improved Power Systems

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

In order to develop new high-performance batteries, fuel cells, and sensors, the electrochemical behavior of materials and devices need to be quantitatively assessed. This assessment (models and systems characterization) will help identify the performance of electrochemical systems leading to the development of significantly improved power sources. New electrochemical analysis tools will enable be ...

SBIR ArmyDepartment of Defense

10. A152-093: Techniques for Wire Recognition using mmW

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rotorcraft landing and takeoff is dangerous in environments where obstacles, particularly wires or power lines exist, and pilot vision is degraded by obscurants such as dust, smoke, fog, rain and snow. This SBIR would focus on a radar solution to detecting wires and power cables when landing in a visually degraded environment. Existing data for wires and power lines with millimeter wave radars pro ...

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